

PRODUCT AFFECTED

OB-SX

DRAWINGS AFFECTED

1469, sheets 1, 4, 5

DESCRIPTION OF CHANGE

"OCT. 1981 UPGRADE OF OB-SX"

Accomplishes:

- 1) Digital polyphosphz portaments
- 2) 56 Programs standard

Coordinate
these changes
with introduction
of new OB-SX
silk screen.

CHANGES:

- 1) Remove "EPROM SELECT" sw. on rear panel & insulate wires, & install sw. hole cover plate.
- 2) Add new EProm set (3 EPROMs)
- 3) Add two short jumpers on control ^(remove) ~~red~~ wire
- 4) Remove A41 (3080)
- 5) Remove 100K matched resistor going into A27 that comes from signal named ~~UN~~ "UNISON".
(see sheet 5 of 5)

REASON FOR CHANGE

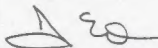
Product Improvements

EFFECTIVITY

- ☒ FUTURE PRODUCTION ONLY
- ☐ RETROFIT UNITS IN PRODUCTION AND INVENTORY
- ☐ RETROFIT UNITS IN FIELD
- ☐ DRAWING CORRECTION ONLY; HARDWARE NOT AFFECTED
- ☐ _____

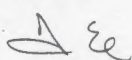
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 9/30/81

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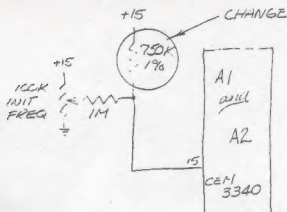
OB-SX VOICE CARD

DRAWINGS AFFECTED

SCHEMATIC - OB-SX VOICE CARD

DRAWING NO 1460

DESCRIPTION OF CHANGE



CHANGE 1M 1% (CONNECTED TO +15V
AND PIN 15 OF OSCILLATOR CHIPS)
TO 750 K, 1%, (2 PER CARD)

REASON FOR CHANGE

TO ALTER INITIAL FREQUENCY TRIMMER RANGE, ALLOWING A
GREATER PERCENTAGE OF OSCILLATOR CHIPS TO CALIBRATE.

EFFECTIVITY

- ☒ FUTURE PRODUCTION ONLY
☐ RETROFIT UNITS IN PRODUCTION AND INVENTORY
☒ RETROFIT UNITS IN FIELD, AS REQUIRED
☐ DRAWING CORRECTION ONLY; HARDWARE NOT AFFECTED
☒ IN TEST IF REQUIRED

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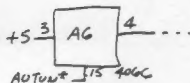
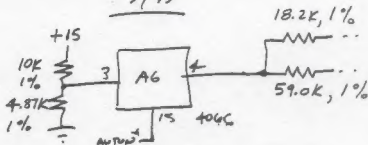
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OB-SX

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1469 - OB-SX Proc/Cont. Bd.

DESCRIPTION OF CHANGE

Schematic #1469 - Sheet 5 of 5WASS/BControl - Processor Board

- 1) Cut etch between AG-3 & A6-14 (non-component side)
- 2) Add 4.87K, 1% resistor between AG-3 & A6-7 (ground)
- 3) Add 10.0K, 1% resistor between AG-3 & nearest +15.
- 4) Change 21.5K, 1% to 18.2K, 1% 5) Change 64.9K, 1% to 59.0K, 1%

REASON FOR CHANGE

Cure Transpose Up/Down Octave due to instability of +5V.

EFFECTIVITY

- ☐ FUTURE PRODUCTION ONLY
- ☒ RETROFIT UNITS IN PRODUCTION AND INVENTORY
- ☐ RETROFIT UNITS IN FIELD
- ☐ DRAWING CORRECTION ONLY; HARDWARE NOT AFFECTED
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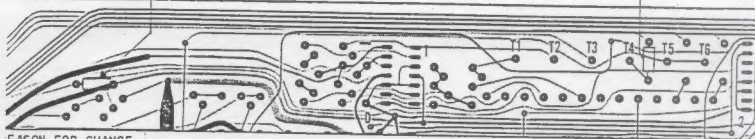
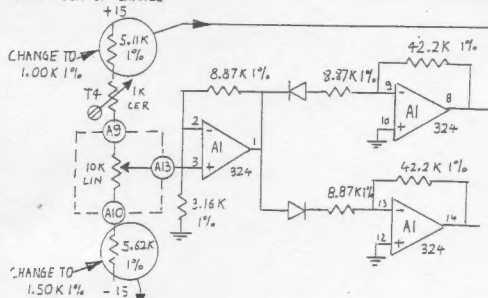
OB-SX

DRAWINGS AFFECTED

OB-SX PROCESSOR BOARD

DRAWING N° 1469 SHEET 5 OF 5

DESCRIPTION OF CHANGE



REASON FOR CHANGE

TO INCREASE THE RANGE OF THE "CENTER LEVER" TRIMMER T4

EFFECTIVITY

- ☒ FUTURE PRODUCTION ONLY
- ☐ RETROFIT UNITS IN PRODUCTION AND INVENTORY
- ☐ RETROFIT UNITS IN FIELD
- ☐ DRAWING CORRECTION ONLY; HARDWARE NOT AFFECTED
- ☐

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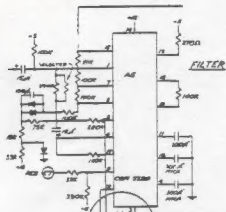
PRODUCT AFFECTED

08-SX

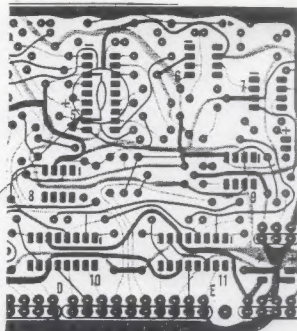
DRAWINGS AFFECTED

VOICE CARD N^o 1460

DESCRIPTION OF CHANGE



ADD A .001μF
BETWEEN PIN 8 AND PIN 3 OF A5



REASON FOR CHANGE

- REMOVE OSCILLATION

EFFECTIVITY

- ☒ FUTURE PRODUCTION ONLY
- ☐ RETROFIT UNITS IN PRODUCTION AND INVENTORY
- ☐ RETROFIT UNITS IN FIELD
- ☐ DRAWING CORRECTION ONLY; HARDWARE NOT AFFECTED
- ☒ AS NEEDED IN TEST

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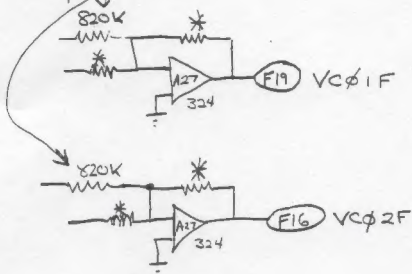
DRAWINGS AFFECTED

1469 Sheet 5 of 5

DESCRIPTION OF CHANGE

Replace 2 820K 5% resistors to 806K 1% on
Control Board

these are changed



REASON FOR CHANGE

to Match the LFO gain between VCO's

EFFECTIVITY

- ☐ FUTURE PRODUCTION ONLY
- ☐ RETROFIT UNITS IN PRODUCTION AND INVENTORY
- ☐ RETROFIT UNITS IN FIELD
- ☐ DRAWING CORRECTION ONLY; HARDWARE NOT AFFECTED
- ☒ As required Enew prod.

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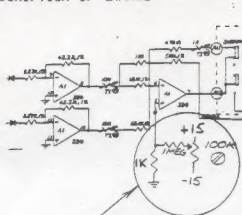
08-SX

DRAWINGS AFFECTED

SCHEMATIC 1469 SHEETS

ASSEMBLY T20046 (CONTROL 8D)

DESCRIPTION OF CHANGE



1) CUT TRACE ON NON-COMPONENT SIDE TO DISCONNECT A1-PINS FROM A1-PINS 10 AND 12.

2) CUT TRACE ON COMPONENT SIDE TO DISCONNECT A1-PINS FROM THE GND TRACE.

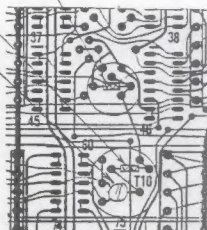
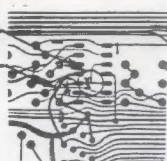
3) ADD 1KΩ RESISTOR.

4) ADD 1MΩ RESISTOR.

5) ADD 100KΩ TRIMPOT.

6) ADD A JUMPER TO CONNECT A1-PINS TO THE JUNCTION OF 1KΩ AND 1MΩ RESISTORS.

7) ADD A JUMPER THAT CONNECTS A1 PIN 10 TO GND TRACE. (CONNECTOR D PIN 2 AND PIN 4 ARE GND.)



REASON FOR CHANGE

TO ALLOW FOR OFFSET ADJUSTMENT OF "OSC 2 ONLY" SWITCH. DO ONLY ON NEWER BOARDS THAT HAVE THE DIGITAL PORTAMENTO EPROMS.

EFFECTIVITY

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